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41 Web mining for web personalization

Magdalini Eirinaki, Michalis Vazirgiannis

February 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 1

Publisher: ACM Press

Full text available: pdf(293.73 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Web personalization is the process of customizing a Web site to the needs of specific users, taking advantage of the knowledge acquired from the analysis of the user's navigational behavior (usage data) in correlation with other information collected in the Web context, namely, structure, content, and user profile data. Due to the explosive growth of the Web, the domain of Web personalization has gained great momentum both in the research and commercial areas. In this article we present a survey ...

Keywords: WWW, Web personalization, Web usage mining, user profiling

42 Bayesian Networks Structure Learning and Its Application to Personalized Recommendation in a B2C Portal

Junzhong Ji, Chunnian Liu, Jing Yan, Ning Zhong

September 2004 **Proceedings of the 2004 IEEE/WIC/ACM International Conference on Web Intelligence WI '04**

Publisher: IEEE Computer Society

Full text available: pdf(309.96 KB) Publisher Site Additional Information: full citation, abstract

Web Intelligence (WI) is a new and active research field in current AI and IT. Personalized recommendation in an intelligent B2C portal is an important research topic in WI. In this paper, we first investigate the architecture of a B2C portal from the viewpoint of conceptual levels of WI. Aiming at data mining of knowledge-level in a B2C portal, we present a new improved learning algorithm of Bayesian Networks, which consists of two major contributions, namely, making the best of lower order Con ...

43 Evolving data mining into solutions for insights: Data-driven evolution of data mining algorithms

Padhraic Smyth, Daryl Pregibon, Christos Faloutsos

August 2002 **Communications of the ACM**, Volume 45 Issue 8

Publisher: ACM Press

Full text available: pdf(106.77 KB) html(27.95 KB) Additional Information: full citation, abstract, references, citings, index terms

Fundamentally, these algorithms are driven by the nature of the data being analyzed, in both scientific and commercial applications.

44 Research track: SEWeP: using site semantics and a taxonomy to enhance the Web personalization process

M. Eirinaki, M. Vazirgiannis, I. Varlamis

August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '03**

Publisher: ACM Press

Full text available: pdf(429.65 KB) Additional Information: full citation, abstract, references, citings, index terms

Web personalization is the process of customizing a Web site to the needs of each specific user or set of users, taking advantage of the knowledge acquired through the analysis of the user's navigational behavior. Integrating usage data with content, structure or user profile data enhances the results of the personalization process. In this paper, we present SEWeP, a system that makes use of both the usage logs and the semantics of a Web site's content in order to personalize it. Web content is ...

Keywords: Web mining, Web personalization, concept hierarchies, semantic annotation of Web content

45 Enabling scalable online personalization on the Web

Debra VanderMeer, Kaushik Dutta, Anindya Datta, Krithi Ramamritham, Shamkant B. Navanthe

October 2000 **Proceedings of the 2nd ACM conference on Electronic commerce EC '00**

Publisher: ACM Press

Full text available: pdf(491.69 KB) Additional Information: full citation, references, citings, index terms

Keywords: dynamic profiling, e-commerce, online personalization, user behavior

46 Digital villiage: digital politics 2000

Hal Berghel

November 2000 **Communications of the ACM**, Volume 43 Issue 11

Publisher: ACM Press

Full text available: pdf(869.34 KB) html(23.11 KB) Additional Information: full citation, citings, index terms

47 Multimedia: OCTOPUS: aggressive search of multi-modality data using multifaceted knowledge base

Jun Yang, Qing Li, Yueting Zhuang

May 2002 **Proceedings of the 11th international conference on World Wide Web WWW '02**

Publisher: ACM Press

Full text available: pdf(321.15 KB) Additional Information: full citation, abstract, references, citings, index terms

An important trend in Web information processing is the support of multimedia retrieval. However, the most prevailing paradigm for multimedia retrieval, content-based retrieval (CBR), is a rather conservative one whose performance depends on a set of specifically defined low-level features and a carefully chosen sample object. In this paper, an aggressive search mechanism called *Octopus* is proposed which addresses the retrieval of multi-modality data using multifaceted knowledge. In parti ...

Keywords: layered graph model, link analysis, multi-modality data, multifaceted knowledge base, multimedia retrieval, relevance feedback

48 Industry/government track papers: Predicting customer shopping lists from point-of-sale purchase data

Chad Cumby, Andrew Fano, Rayid Ghani, Marko Krema

August 2004 **Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04**

Publisher: ACM Press

Full text available: pdf(286.61 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a prototype that predicts the shopping lists for customers in a retail store. The shopping list prediction is one aspect of a larger system we have developed for retailers to provide individual and personalized interactions with customers as they navigate through the retail store. Instead of using traditional personalization approaches, such as clustering or segmentation, we learn separate classifiers for each customer from historical transactional data. This allows us to ma ...

Keywords: POS data, applications, classification, machine learning

49 Networks: An information-interconnectivity-based retrieval method for network attached storage

Iliyak Georgiev, Ivo I. Georgiev

April 2004 **Proceedings of the 1st conference on Computing frontiers CF '04**

Publisher: ACM Press

Full text available: pdf(302.56 KB) Additional Information: full citation, abstract, references, index terms

Network attached disk storage is characterized by independent network attachment and embedded intelligence. For Internet applications, it provides the key functionality of geographical replication and intelligent retrieval of data objects.The paper describes a latency reducing method based on the relative interconnectivity between data objects. We follow the locality-of-reference principle to partition interrelated data objects on close disk areas or network storage nodes. The method incorporate ...

Keywords: interconnectivity-based retrieval, network attached storage, storage objects clustering

50 An architecture to support scalable online personalization on the Web

Anindya Datta, Kaushik Dutta, Debra VanderMeer, Krithi Ramamritham, Shamkant B. Navathe

August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(167.25 KB) Additional Information: full citation, abstract, citings, index terms

Online personalization is of great interest to e-companies. Virtually all personalization

technologies are based on the idea of storing as much historical customer session data as possible, and then querying the data store as customers navigate through a web site. The holy grail of online personalization is an environment where fine-grained, detailed historical session data can be queried based on current online navigation patterns for use in formulating real-time responses. Unfortunately, as mo ...

Keywords: Behavior-based personalization, Dynamic lookahead profile, Profile caching, Scalable online personalization, Web site and interaction model

51 Full Technical Papers: Learning implicit user interest hierarchy for context in personalization

Hyoung R. Kim, Philip K. Chan

January 2003 **Proceedings of the 8th international conference on Intelligent user interfaces IUI '03**

Publisher: ACM Press

Full text available: pdf(191.53 KB) Additional Information: full citation, abstract, references, cited by, index terms

To provide a more robust context for personalization, we desire to extract a continuum of general (long-term) to specific (short-term) interests of a user. Our proposed approach is to learn a user interest hierarchy (UIH) from a set of web pages visited by a user. We devise a divisive hierarchical clustering (DHC) algorithm to group words (topics) into a hierarchy where more general interests are represented by a larger set of words. Each web page can then be assigned to nodes in the hierarchy f ...

Keywords: clustering algorithm, concept clustering, user interest hierarchy, user profile

52 Web Behavior Patterns: Separating the swarm: categorization methods for user sessions on the web

Jeffrey Heer, Ed H. Chi

April 2002 **Proceedings of the SIGCHI conference on Human factors in computing systems: Changing our world, changing ourselves CHI '02**

Publisher: ACM Press

Full text available: pdf(462.60 KB) Additional Information: full citation, abstract, references, citings, index terms

Understanding user behaviors on Web sites enables site owners to make sites more usable, ultimately helping users to achieve their goals more quickly. Accordingly, researchers have devised methods for categorizing user sessions in hopes of revealing user interests. These techniques build user profiles by combining users' navigation paths with other data features, such as page viewing time, hyperlink structure, and page content. Previously, we have presented complex techniques of combining many o ...

Keywords: World Wide Web, classification, clustering, data mining, user categorization, user patterns, user profile, user study, web mining

53 Learning and managing user context in personalized communications services

Robert Dinoff, Richard Hull, Bharat Kumar, Daniel Lieuwen, Paulo Santos

May 2006 **Proceedings of the international workshop in conjunction with AVI 2006 on Context in advanced interfaces CAI '06**

Publisher: ACM Press

Full text available: pdf(166.79 KB) Additional Information: full citation, abstract, references, index terms

A key dimension in personalization of converged (wireless and wireline, web)

communication services is adapting each service to a user's context, and thus tailoring the services to the daily lives of individual users. The Intuitive Network Application (INA) framework being developed at Bell Labs uses both machine learning techniques as well as user feedback to determine a user's profile and preferences. This paper explores how this information can then be used by the network to automatically inf ...

Keywords: context, learning, personalization, preference palettes, preferences, privacy

54 Personalization: Personalized query expansion for the web

Paul - Alexandru Chirita, Claudiu S. Firan, Wolfgang Nejdl

July 2007 **Proceedings of the 30th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '07**

Publisher: ACM Press

Full text available: pdf(256.33 KB) Additional Information: full citation, abstract, references, index terms

The inherent ambiguity of short keyword queries demands for enhanced methods for Web retrieval. In this paper we propose to improve such Web queries by expanding them with terms collected from each user's Personal Information Repository, thus implicitly personalizing the search output. We introduce five broad techniques for generating the additional query keywords by analyzing user data at increasing granularity levels, ranging from term and compound level analysis up to global co-occurrence ...

Keywords: desktop profile, keyword co-occurrences, keyword extraction, personalized web search, query expansion

55 CC--MPI: a compiled communication capable MPI prototype for ethernet switched clusters

Amit Karwande, Xin Yuan, David K. Lowenthal

June 2003 **ACM SIGPLAN Notices , Proceedings of the ninth ACM SIGPLAN symposium on Principles and practice of parallel programming PPoPP '03**, Volume 38 Issue 10

Publisher: ACM Press

Full text available: pdf(304.68 KB) Additional Information: full citation, abstract, references, citings, index terms

Compiled communication has recently been proposed to improve communication performance for clusters of workstations. The idea of compiled communication is to apply more aggressive optimizations to communications whose information is known at compile time. Existing MPI libraries do not support compiled communication. In this paper, we present an MPI prototype, *CC--MPI*, that supports compiled communication on Ethernet switched clusters. The unique feature of *CC--MPI* is that it ...

Keywords: MPI, clusters of workstations, compiled communication, message passing library

56 A content-based image retrieval scheme allowing for robust automatic personalization

Sotirios Chatzis, Anastasios Doulamis, Theodora Varvarigou

July 2007 **Proceedings of the 6th ACM international conference on Image and video retrieval CIVR '07**

Publisher: ACM Press

Full text available: pdf(529.92 KB) Additional Information: full citation, abstract, references, index terms

The retrieval performance of content-based image retrieval (CBIR) systems is often

disappointingly low, mainly due to the subjectivity of human perception. Relevance feedback (RF) has been widely considered as a powerful tool to enhance CBIR systems by incorporating human perception subjectivity into the retrieval procedure. However, usually, the obtained feedback logs are scarce and contain lots of outliers, undermining the RF adaptation effectiveness. In this paper, we tackle these shortcom ...

Keywords: *t* distributions, mixture models, personalization

57 Reliability for NSWAP

America Holloway, Jennifer Barry, Heather Jones
May 2005 **Journal of Computing Sciences in Colleges**, Volume 20 Issue 5
Publisher: Consortium for Computing Sciences in Colleges
Full text available: pdf(120.31 KB) Additional Information: full citation, abstract, index terms

We present reliability schemes for network swapping enabled Linux clusters. As processor speeds have continued to increase, disk speeds have failed to keep pace, resulting in application performance being restricted by slow disk access. This problem can be alleviated in cluster systems by using idle RAM of other nodes as swap space, a strategy known as network swapping. Nswap, a network swapping system, allows each node in the cluster to either swap-out pages or swap-in pages, according to its c ...

58 Evaluating interaction: research papers: Evaluating the semantic memory of web interactions in the *xMem* project

Francesca Rizzo, Florian Daniel, Maristella Matera, Sharon Albertario, Anna Nibioli
May 2006 **Proceedings of the working conference on Advanced visual interfaces AVI '06**
Publisher: ACM Press
Full text available: pdf(275.34 KB) Additional Information: full citation, abstract, references, cited by, index terms

As the amount of information on the World Wide Web continues to grow, efficient hypertext navigation mechanisms are becoming crucial. Among them, effective history mechanisms play an important role. We therefore decided to provide a new method to access users' navigation histories, called *xMem* (Extended Memory Navigation), building on semantic-based and associative accesses, so as to imitate some of the features of the human memory. Such a memory may give users better understanding of the ...

Keywords: experimental evaluation, human factors, hypertext navigation, information retrieving, usability, web history mechanisms, web interaction history, world wide web

59 Customer context server application enabling customer-focused e-commerce

Bert Barabas, Mark van Gulik
January 2000 **Addendum to the 2000 proceedings of the conference on Object-oriented programming, systems, languages, and applications (Addendum) OOPSLA '00**
Publisher: ACM Press
Full text available: pdf(544.59 KB) Additional Information: full citation, abstract, index terms

Fragmentation of customer data across internal product based systems is preventing a meaningful customer dialog across channels. This problem is compounded further by the addition of new Internet and customer-facing applications from multiple vendors.

The typical clicks and mortar company has dozens of e-commerce and product-based systems containing millions of records with customer information without the ability to consolidate the data into a common customer view. Maintaining profit ...

60 Session 6: student best paper contest: PicToon: a personalized image-based cartoon system

Hong Chen, Nan-Ning Zheng, Lin Liang, Yan Li, Ying-Qing Xu, Heung-Yeung Shum

December 2002 **Proceedings of the tenth ACM international conference on Multimedia MULTIMEDIA '02**

Publisher: ACM Press

Full text available: pdf(774.52 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we present **PicToon**, a cartoon system which can generate a personalized car**toon** face from an input **Pic**ture. PicToon is easy to use and requires little user interaction. Our system consists of three major components: an image-based Cartoon Generator, an interactive Cartoon Editor for exaggeration, and a speech-driven Cartoon Animator. First, to capture an artistic style, the cartoon generation is decoupled into two processes: sketch generation and stroke renderi ...

Keywords: applications, example-based learning, lip-syncing, multi-modal interaction and integration, non-parametric sampling, user interfaces

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the space constraint,we summarize the main **cluster personalization** functions Adaptive Resonance Associative Map. **Neural Networks**, 8(3):437–446, ...
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